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## **ABSTRACT FOR PRESENTATION AT NMCI SYMPOSIUM**

### **“RETHINKING THE COMPUTER WORKSPACE”**

Abstract For a Presented By Theo Mayer  
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### **OVERVIEW**

The computer workspace has traditionally consisted of a workstation/PC with a keyboard, mouse and monitor. Today's data rich and media rich environment calls for a complete rethinking of this traditional computer paradigm. "Rethinking the Computer Workspace" explores the challenges to meet and the opportunities to explore using commonly available tools and technologies to re-invent the information worker's space.

### **THE NEW PARADIGM**

If all you need to do is check email, write short memos, and manage your schedule or contacts, the traditional computer environment is completely adequate. In fact, for these traditional tasks, a PDA or Blackberry may be all that is required. However, many of us work in more complex data and media environments that call for information and task capabilities that far exceed this traditional paradigm.

We access and interact with multiple computers, sometimes at multiple security levels. We simultaneously monitor various other media including DVDs, News, weather, CATV and VTC. We are tasked with searching for, reviewing and integrating information from a variety of sources including web data, images, electronic slides, spreadsheets and other documents. Many of us are then called upon to recompile that information into new communications.

Every day the music is playing faster as we try to learn to dance. There is an information explosion sending shock waves through all logistics based organization. More and more workers require information "power tools" that are commanding enough to help us mine value from the riches of the data glut.

### **MULTIPLE SOURCES**

The first steps in the evolution began a number of years ago when certain people in government services and military branches found themselves surrounded by multiple copies of the standard computer/Monitor/Keyboard/Mouse paradigm. Each instance of a computer source was represented by a complete computer system.

Today, many more users must integrate access to multiple computer sources. It may be as simple as the integration of desktop PC with a user's laptop. In these applications, many of us have learned, synchronization schemes all fail as we inevitably begin to apply different tasks to each machine. Before you know it, we have a work environment that includes both laptop and desktop.

Others users are tasked with multiple levels of security. In these cases, definite tasks are isolated to specific machines automatically creating a multi-machine user environment. Using multiple complete systems is awkward and inefficient as well.



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Once you add the need to review live and recorded video, monitor public or closed circuit information systems, then consider "Video Teleconferencing" the workspace becomes quite a kludge. And yet, as these requirements become commonplace for a larger and larger segment of the information workforce, new integration concepts and systems are the only way to transform the potential of the technology into productive value.

## ***MULTI CHANNEL SYSTEMS***

Today, we CAN fuse these separate machine instances from the old paradigm into more fully integrated solutions.

This starts with multiple monitors, extends to fully integrated multi-screen displays, KVM switching, integrated source switching on the displays, and multi-channel graphics cards to spread single computers over multiple screens.

This is an exciting new paradigm, which is JUST emerging. It promises increased communications speeds, heightened awareness, clearer analysis, and the faster integration of data into information on which we can make decisions more rapidly! But that is only the beginning.

## ***APPLICATION AND SYSTEMS***

To explore the potential we will present a series of actual systems. The applications will be described and then a block diagram of the system will be presented.

Examples will include:



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## **COMMANDER LEVEL SYSTEMS**

**MULTI-SECURITY LAPTOP INTEGRATION**

**MEDIA SOURCES**

**VTC**

## **BRIEFERS**

**MUTLI-CHANNEL VIDEO CARDS FOR REAL-ESTATE**

**DRAG AND DROP ACROSS THE APPLICATION SPACES**

**AUDIO, AND VIDEO PRODUCTION**

**POWER POWER POINT**

## **ANALYST**

**FIELD OF VIEW**

**MULTIPLE VIEWS**

**COMPARATIVES**

## **SECURITY**

**MANY CAMERAS**

**NEW SCOPIC CAMERAS AND SENSORS**

## **OPERATIONS MANAGEMENT**

**REMOTE VEHICLE OPERATIONS**

**LOGISTICS MANAGEMENT**

**THE KILLER APP.**

## **MINI COMMAND CENTERS**

**MAKING THE BIG SCREEN PORTABLE**

## **DEPLOYABLES**

**SHIPS, BOATS, PLANES, TRUCKS AND TRAINS**